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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
. 09/811,227	03/16/2001	Geoffrey Howard Blackham		7870
75	05/17/2005	-	EXAMINER	
Iandiorio & Teska 260 Bear Hill Road			WALLACE, SCOTT A	
Waltham, MA			WALLACE, SCOTT A ART UNIT PAPER NUMBE	
,			2675	
			DATE MAILED: 05/17/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
		09/811,227	BLACKHAM ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Scott Wallace	2675				
Period for	- The MAILING DATE of this communication r Reply	n appears on the cover shee	t with the correspondence address				
A SHO THE N - Extens after S - If the p - Failure Any re	DRTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATION Sions of time may be available under the provisions of 37 Cl EX (6) MONTHS from the mailing date of this communication ceriod for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory p to to reply within the set or extended period for reply will, by the ply received by the Office later than three months after the d patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, ma on. a reply within the statutory minimum of eriod will apply and will expire SIX (6) I statute, cause the application to becom	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	on.			
Status			·				
1)🛛 🗆	Responsive to communication(s) filed on	09 July 2004.					
2a)⊠ ⁻	This action is FINAL . 2b)□	This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositio	on of Claims						
5)□ (6)⊠ (7)□ (Claim(s) <u>6-11</u> is/are pending in the application of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) <u>6-11</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction a	hdrawn from consideration.					
Application	on Papers						
9)□ T	he specification is objected to by the Exa	miner.					
10)□ T)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to	÷, ,	•				
_	Replacement drawing sheet(s) including the $lpha$ The oath or declaration is objected to by the		•	(d).			
Priority u	nder 35 U.S.C. § 119						
a)[Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docur 2. Copies of the certified copies of the application from the International Butter the attached detailed Office action for a	ments have been received. ments have been received i priority documents have be ureau (PCT Rule 17.2(a)).	n Application No een received in this National Stage				
Attachment(s)						
1) Notice 2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948 ation Disclosure Statement(s) (PTO-1449 or PTO/S No(s)/Mail Date	Paper I	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-152)				

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Response to Arguments

1. Applicant's arguments filed 07/09/2004 have been fully considered but they are not persuasive. Applicant's argue that on page 3 that "The invention of the present application does not include separate projection for the inset high resolution image" as seen in the references used. The separate projection system is used to show that the inset image comes from a different source as described by the claim 1 " a low resolution wide field of view image component from a first source, and a high resolution narrow field of view image component from a second source which is different from the first source". Also, the applicant argues that "The invention of the present application aims to blend the boundary region between the high resolution image and the low resolution image so that the boundary appears imperceptible. Also the background image is not a continuous tone image, but is a video source providing typically background scenes of the outside world". Claim 1 does not disclose whether the low resolution background image is not a continuous tone image or a video source providing typically background scenes of the outside world.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 6-7 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lechner et al., U.S. Patent No. 5,487,665 in view of Skolmoski, U.S. Patent No. 6,574,352 in further in view of Harrington et al., U.S. Patent No. 5,737,455.
- 4. As per claim 6, Lechner et al discloses a method of operating image display apparatus, which method comprises combining a low resolution image component from a first source (column 1 lines 15-17 and column 2 lines 20-25), and a high resolution image component from a second source which is different from the first source (column 1 lines 15-17 and 49-55); whereby the high resolution image

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component is able to be positioned anywhere in a display obtained from the image display apparatus (column 1 lines 15-17 and 49-55). Although Lechner et al does not specifically teach that the low resolution image is a wide field of view and the high resolution image is a narrow field of view, this is disclosed in Skolmoski in column 1 lines 15-20. It would have been obvious to one of ordinary skill in the art to use wide field of view with low resolution and narrow field of view with high resolution because this gives the user a compromise between seeing the whole image and specific details which saves on memory requirements. Only using high resolution would require more memory, but having both saves on memory because low resolution requires less. Also Lechner et al does not disclose combining in a common pixel format of the high resolution image. This is disclosed in Harrington et al in column 3 lines 7-15 and column 4 lines 20-31. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine images in a high resolution format as in Harrington with the system of Lechner because this would reduce aliasing (column 3 lines 7-15).

- 5. As per claim 7, Lechner et al does not disclose in which the low resolution image is resampled to increase the pixel count to that of the highest resolution imagery. However, this is disclosed in Harrington et al in column 4 lines 20-31 (scaling up the image would increase the pixel count). It would have been obvious to one of ordinary skill in the art at the time the invention was made to increase the pixel count of the low resolution image to the high resolution image of Lechner by resampling as in Harrington et al because sampling was a well known and efficient technique to increase the pixel count.
- 6. As per claim 9, Lechner et al does not disclose in which the composite imagery is stored in a frame buffer. Examiner takes Official Notice that at the time the invention was made that frame buffers were commonly used to store data to be displayed on standard displays. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to use a frame buffer because this would allow the images to be displayed on standard displays.
- 7. As per claim 10, Lechner et al discloses in which the frame buffer is segmented to drive a matrix of display devices (fig. 1)

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8. As per claim 11, Lechner et al discloses in which the low resolution wide field of view image component is of a background scene (column 2 lines 20-25), and in which the high resolution narrow field of view image component is of a target (column 5 lines 39-42).

- 9. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lechner et al., U.S. Patent No. 5,487,665 in view of Skolmoski, U.S. Patent No. 6,574,352 in further in view of Harrington et al., U.S. Patent No. 5,737,455 in further in view of Kishimoto, JP 10164468A.
- 10. As per claim 8, Although Lechner with Skolmoski and Harrington do not disclose interpolating the pixel count when going from a low resolution image to a high resolution image, this is disclosed in Kishimoto (Abstract). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use interpolation for going from low resolution to high resolution, as Kishimoto teaches, in the system of Lechner, Skolmoski and Harrington, because this would save on cost.

Conclusion

11. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX

MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Scott Wallace whose telephone number is 571-272-7652. The examiner can normally be

reached on Mon-Fri 9-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Sumati Lefkowitz can be reached on 571-272-3638. The fax phone number for the organization where

this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

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at 866-217-9197 (toll-free).

Scott Wallace Examiner Art Unit 2675

SUMATI LEFKOWITZ

SUPERVISORY PATENT EXAMINER

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